

**Measuring device for antifriction roller bearing, has rotating magnetic encoder in minicoil to cause induction change detected by coupled coil in resonant circuit of external sensor**

REST AVAILABLE COPY

**Patent number:** DE10011820  
**Publication date:** 2001-09-13  
**Inventor:** WESER MARKUS [DE]; BINDER JOSEF [DE];  
HASSIOTIS VASILIS [DE]; HOFMANN HEINRICH [DE]  
**Applicant:** FAG AUTOMOBILTECHNIK AG [DE]  
**Classification:**  
- international: G01P3/488  
- european: G01P3/44B; G01P3/487  
**Application number:** DE20001011820 20000310  
**Priority number(s):** DE20001011820 20000310

**Abstract of DE10011820**

The measuring device has a microcoil resonant circuit consisting of a minicoil (18) and capacitor, and arranged in a non-ferromagnetic disc (9). A rotating magnetic encoder (10) in the minicoil causes induction change which is detected by a coupled coil (19) in the resonant circuit of an external sensor (20). The external sensor oscillates at a frequency greater than 5 Megahertz. The rotating magnetic encoder is arranged at the rotating bearing race with several North and South poles covered by the non-ferromagnetic disc.

